



*the/Br andt 2857*  
*A*  
*10/25/02*

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named  
Inventor : Eric Lovegren

Appln. No.: 10/046,647

Filed : October 29, 2001

For : MEASUREMENT OF CONCENTRATION  
OF MATERIAL IN A PROCESS  
FLUID

Docket No.: R11.12-0763

Group Art Unit: 2857

Examiner:

**PRELIMINARY AMENDMENT**

Box Non-Fee Amendment  
Commissioner for Patents  
Washington, D.C. 20231

I HEREBY CERTIFY THAT THIS PAPER IS BEING  
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WASHINGTON, D.C. 20231, THIS

*4* DAY OF *Oct* 20 *02*

*[Signature]*  
PATENT ATTORNEY

Sir:

Please amend the above-identified application as  
follows:

IN THE ABSTRACT

Please replace the paragraph beginning at Page 24, Line 4  
and ending at Page 24, Line 11 with the following:

*pl*  
An apparatus for measuring concentration of a material in  
a process fluid includes an antenna configured to contact the  
process fluid and a pulse generator coupled to the antenna to  
generate a microwave transmit pulse through the antenna. A pulse  
receiver receives a reflected pulse from the antenna and the  
concentration of the material is calculated as a function of the  
reflected pulse.

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